

CENTRAL INTELLIGENCE AGENCY

REPORT NO.

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COUNTRY USSR

DATE DISTR.

14 Mar. 1950

SUBJECT Soviet Manual on the 152 mm SP Guns

NO. OF PAGES

3

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NO. OF ENCLS.
(LISTED BELOW)

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1. A photostat of a Soviet manual on the 152-mm SP gun is attached.*

3. The manual has 48 pages, the content of which is excerpted in the following:

a. Technical data on pages three and four:

- | | |
|--------------------------------------|---------------------|
| (1) Weight: | 46.5 tons |
| (2) Dimensions: | |
| (a) Chassis length: | 6.75 meters |
| (b) Chassis width: | 3.25 meters |
| (c) Overall height: | 2.45 meters |
| (d) Width between centers of tracks: | 2.6 meters |
| (e) Clearance: | 0.44 meters |
| (3) Speed: | |
| (a) Average speed on highways: | 15 mph (25km/ph) |
| (b) Average speed on dirt roads: | 8.5 mph (14 km/ph) |
| (c) Maximum speed: | 26.5 mph (43 km/ph) |
| (d) Speed, cross country: | 7.5 mph (12 km/ph) |

- (4) Capacity of fuel tanks:

Capacity of three main tanks:

600... (Notes
Page is damaged here)

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- (5) Consumption of fuel for 1 km (0.62 miles): 2 to 3.5 kg
- Consumption of fuel for one hour (running motor): 40 to 70 liters (10 to 18.5 gallons)
- (6) Cruising range:
 - (a) Highway: 205 miles (330 km)
 - (b) Dirt road: 100 miles (165 km)
 - (c) Cross country: 75 miles (120 km)
- (7) Performance:
 - (a) Maximum fording depth: 1.60 meters
 - (b) Maximum step up: 1.20 meters
 - (c) Maximum ditch crossing: 2.70 meters
 - (d) Maximum gradient angle: 36°
 - (e) Maximum angle of side inclination: 30°
 - (f) Ground pressure per cm²: 0.85 kg
- (8) Maximum engine performance (Diesel T-2k) at 2,000 rpm: 600 HP
- (9) Armament:
 - (a) Gun-howitzer, ML-20s caliber: 152 mm
 - Traverse: + 6°
 - Elevation: - 5° to + 18°
 - Length of recoil: Minimum: 800 mm, Maximum: 900 mm
 - (b) Light machine gun PSh-2, caliber: 7.6 mm
- (10) Ammunition carrier:
 - (a) Shells for gun: 20 rounds
 - (b) Drum magazines for light machine guns: 18 (1,278 cartridges)
 - (c) Hand grenades R-1: 25
- (11) Sighting equipment:
 - (a) One telescopic sight ST-10 or KP-5
 - (b) One panoramic sight ML-20
- (12) Observation equipment:
 - (a) One periscope PTA-4
 - (b) One direct vision set
 - (c) One mirror periscope
- (13) Radio equipment:

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Type:	10-R or 9-R
Maximum range (in steady position:	22 to 25 miles
in motion:	12 to 15 miles
Height of rod antenna:	1.4 meters
Wave range of receiving set:	150 to 240
Power source:	Power system of SP gun
Voltage:	12 Volts
Transformer:	RU-75W and RU-11B
Interphone system:	TFU-4 ^{bis}

(14) Tools:

- (a) One crosscut saw
- (b) One crowbar
- (c) One engineer ax
- (d) One engineer spade

(15) Accessories:

- (a) One large tarpaulin
- (b) Two tow ropes
- (c) One fire extinguisher
- (d) One medical kit

b. Page 18 shows a diagram of the station of the 5-man crew. The operations of the crew members are described in the following pages.

c. Page 36 is a chart of ranges and corresponding elevation angle for nine different charges. The maximum range is indicated at 3,000 meters (9,850 feet).

d. Page 38 contains a paragraph stating that an SP gun battery consists of three SP guns, including that of the battery commander.

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Comment:

The given data do not definitely reveal whether the manual is on the JSU-152 SP gun or the obsolete SU-152 SP gun (on KV chassis). The stated weight of 46.5 metric tons corresponds to the weight of the JSU-152 SP gun known from other original documents.

The stated organization of an SP gun battery with three SP guns was probably introduced at the end of the war. The present armament of an SP gun battery is assumed to be five SP guns, whereas in 1944 a heavy SP gun battery had only two guns. It is concluded that the manual was edited in 1945 or 1946 and may possibly describe the JSU-152 SP gun.

1 Annex: Photostated Manual.

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Comment: The photostat copy of the manual has been sent to the Department of the Army.

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